**Claims** 2 3 A gas spring suspension system comprising: 5 a frame; a pressure chamber; 6 7 a compression piston assembly; 8 an adjustment assembly associated with the frame; a piston tube operatively connected to the adjustment assembly and the 9 compression piston assembly, 10 11 the compression piston assembly slidably displaceable along the piston tube to 12 change the pressure in the pressure chamber, 13 the adjustment assembly operable to axially position the piston tube and the 14 compression piston assembly relative to the frame to adjust a travel of the 15 suspension system; and a probe associated with the frame and configured to be variably positionable 16 within the pressure chamber in response to axial displacement of the piston tube 17 18 and the compression piston assembly by the adjustment assembly, the variable positioning of the probe within the pressure chamber changing the pressure 19 20 therein. 21 22 2. The suspension system of claim 1, wherein the adjustment assembly further 23

comprises an actuator operable to position the adjustment assembly.

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- 7. The suspension system of claim 5, further comprising a reserve chamber
- separated from the pressure chamber by a choke piston, the choke piston
- 3 permitting restricted gas flow from the pressure chamber to the reserve chamber
- and less restricted gas flow from the reserve chamber to the pressure chamber.

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- 7 8. The suspension system of claim 7, wherein the choke piston is attached to the
- 8 probe and configured to be slidably displaceable along the piston tube, the choke
- 9 piston sealingly engaging the piston tube.

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- 9. The suspension system of claim 5, further comprising a valve associated with
- the frame and the pressure chamber, the valve permitting external adjustment of
- the pressure within the pressure chamber.

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- 17 10. The suspension system of claim 2, further comprising a reserve chamber
- separated from the pressure chamber by a choke piston, the choke piston
- 19 permitting restricted gas flow from the pressure chamber to the reserve chamber
- and less restricted gas flow from the reserve chamber to the pressure chamber.

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- 1 11. The suspension system of claim 10, wherein the choke piston is attached to
- the probe and configured to be slidably displaceable along the piston tube, the
- 3 choke piston sealingly engaging the piston tube.

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- 6 12. The suspension system of claim 2, further comprising a valve associated
- with the frame and the pressure chamber, the valve permitting external
- adjustment of the pressure within the pressure chamber.

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- 13. The suspension system of claim 1, further comprising a reserve chamber
- separated from the pressure chamber by a choke piston, the choke piston
- permitting restricted gas flow from the pressure chamber to the reserve chamber
- and less restricted gas flow from the reserve chamber to the pressure chamber.

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- 17 14. The suspension system of claim 13, wherein the choke piston is attached to
- the probe and configured to be slidably displaceable along the piston tube, the
- choke piston sealingly engaging the piston tube.

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- 1 15. The suspension system of claim 1, further comprising a valve associated
- with the frame and the pressure chamber, the valve permitting external
- 3 adjustment of the pressure within the pressure chamber.